

Reduce Variation to Improve Flow - Summary

Causes of Variation of Demand: (a few examples)

- **1. Seasonality** Fluctuations due to time of year, e.g. winter vs. summer demand.
- **2. Global disruptions –** Events like pandemics or wars.
- **3. Competitor actions** Competitors may affect demand if they have supply issues or promotions.
- **4. Promotions** Internal campaigns causing short-term demand surges.

And many more...

Causes of Variation of Capacity: (a few examples)

- 1. Weather External factors like storms affecting capacity.
- **2.** Labour availability Employee absences or traffic delays.
- **3. Supplier issues** Delays in raw materials or components.
- **4. Internal disruptions** Management or other unplanned activities disrupting production.





Causes of Variation of Process: (a few examples)

- **1. Set-ups and changeovers** Downtime due to switching between tasks.
- 2. Supply shortages Delays caused by lack of inputs.
- **3. Coordination issues** Internal mismanagement of work flows.
- **4. Rework** Fixing mistakes from earlier stages.

Identifying and reducing causes of variation in your demand, capacity and process is a very powerful and incredibly widely applicable source of fundamental operational improvement (and typically way overlooked!).

